

ABSTRACT OF THE DISCLOSURE

The fuel cell humidifying system is to prevent freezing and clogging of a water permeable type humidifier by providing a gas passage switching device for changing the gas flow paths communicating with the humidifier. To direct the flow of dry air exiting from the supercharger to the exhaust passage in the humidifier, the gas passage switching device includes a first three-way valve, a second three-way valve, a flow adjusting valve and a sweep piping. In this system, water vapor in the humidifier which causes freezing can be swept off by flowing dry air through the exhaust gas passage in the humidifier, and therefore, clogging caused by ice particles which plug up the pores of the hollow thread membrane in the humidifier can be prevented.